

Contents of volume 28

Volume 28, Nr. 1, December 1995

Special Issue: Intelligent Production Systems

CONTENTS

- 1 Intelligent Production Systems
D. Kochan
- 3 Intelligent production technology. Future-oriented vision or industrial reality
D. Kochan
- 11 Solid Freeform Manufacturing technologies as an important step in the product development process
J.L. Miller and K.-H. Grote
- 17 Optical digitizing with five axes: really a must?
R. Massen, J. Gässler, C. Konz and H. Richter
- 23 Rapid prototyping of functional metallic parts
M. Greul, T. Pintat and M. Greulich
- 29 Design for manufacturing with generative production processes and a neutral test environment
M. Geiger and W. Steger
- 35 Materials for solid freeform manufacturing processes
P. Eyerer, B. Wiedemann, K.-H. Dusel and B. Keller
- 47 Economic efficiency analysis of complex CAD/CAM systems demonstrated by an integrated design/SFM system
R.G. Wild
- 57 The EOS rapid prototyping concept
U. Behrendt and M. Shellabear

Events

- 63 Calendar

Volume 28, Nr. 2, May 1996

- 71 Editorial

Papers

- 73 C. Walter and J. Palazzo M. de Oliveira
Plant engineering: Modeling and design of topological coupling aspects in a computer aided environment
- 81 D. Yu, J. Deng, Z. Duan and J. Liu
Generation of gouge-free cutter location paths on freeform surfaces for non-spherical cutters
- 95 E.P. Zhou, D.K. Harrison and D. Link
Effecting in-cycle measurement with preteritic CNC machine tools

- 103 W.-Y. Wu, M.-J.J. Wang and C.-M. Liu
Automated inspection of printed circuit boards through machine vision
- 113 C. Kao and H.T. Lee
Coordinated dock operations: Integrating dock arrangement with ship discharging
- 123 J.P.T. Mo, Y. Wang and C. Kang Tang
The use of the Virtual Manufacturing Device in the Manufacturing Message Specification protocol for robot task control
- 137 R.B. Karadkar and S.S. Pande
Feature based automatic CNC code generation for prismatic parts
- 151 L.-C.T. Wang and Y.-T. Yang
Computer aided design of cam motion programs

Short note

- 163 R.E. Billo, K. LaScola Needy and B. Bidanda
Challenges facing information technology to support world class manufacturing

Events

- 167 Calendar of forthcoming conferences and events

Volume 28, Nr. 3, June 1996

- 171 Editorial

Papers

- 173 Critical factors in information system development for a flexible manufacturing system
J.A. Gowan Jr. and R.G. Mathieu
- 185 A comparative experiment of control architectures
P. Timmermans and L. Szakal
- 195 A computer aided finite element/experimental analysis of induction heating process of steel
K. Sadeghipour, J.A. Dopkin and K. Li
- 207 Parameter identification of continuous-time mechanical systems without sensing accelerations
Q.-G. Wang, Q. Bi and B. Zou
- 219 Development of a feedback controller tuner using virtual fuzzy sets
K.C. Chan
- 233 Mapping automotive process control on IEC/ISA FieldBus functionalities
S. Cavalieri, A. Di Stefano and O. Mirabella
- 251 Computer-aided manufacture of axisymmetric cavities
S. Omirou and S. Papaioannou
- 257 The Matrix Approach to information system development
A. Yuval

Miscellaneous

- 265 Author index to volume 28
- 267 Subject index to volume 28
- 269 Contents of volume 28